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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/912,134	07/24/2001	Patrick Willem Hubert Heuts	NL 000425	4012
24738	7590 07/26/2005		EXAMINER	
	LECTRONICS NORTH	TRAN, KHANH C		
	TUAL PROPERTY & STA Y DRIVE, M/S-41SJ	ANDARDS	ART UNIT	PAPER NUMBER
SAN JOSE, CA			2631	
			DATE MAILED: 07/26/2009	5

Please find below and/or attached an Office communication concerning this application or proceeding.

	<u> </u>		
· - <del></del>		Application No.	Applicant(s)
		09/912,134	HEUTS ET AL.
	Office Action Summary	Examiner	Art Unit
		Khanh Tran	2631
Period f	The MAILING DATE of this communication or Reply	appears on the cover sheet w	ith the correspondence address
THE - Extraording - If th - If N - Fail Any	HORTENED STATUTORY PERIOD FOR RIMAILING DATE OF THIS COMMUNICATION of time may be available under the provisions of 37 CF of SIX (6) MONTHS from the mailing date of this communication of period for reply specified above is less than thirty (30) days, or period for reply is specified above, the maximum statutory pure to reply within the set or extended period for reply will, by some treply received by the Office later than three months after the reply attent term adjustment. See 37 CFR 1.704(b).	ON.  R 1.136(a). In no event, however, may a in.  a reply within the statutory minimum of thire eriod will apply and will expire SIX (6) MON statute, cause the application to become AB	reply be timely filed ty (30) days will be considered timely. NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).
Status			
1)[🛛	Responsive to communication(s) filed on 1	13 May 2005.	
2a)□		This action is non-final.	
3)	Since this application is in condition for alle		ers, prosecution as to the merits is
	closed in accordance with the practice und	•	•
Disposit	tion of Claims		
5)⊠	Claim(s) <u>1,3-7,9 and 10</u> is/are pending in t 4a) Of the above claim(s) is/are with Claim(s) <u>9 and 10</u> is/are allowed.	• •	
	Claim(s) <u>1 and 3-7</u> is/are rejected.		•
7)□	Claim(s) is/are objected to.		
ا_ا(٥	Claim(s) are subject to restriction and	na/or election requirement.	
Applicat	ion Papers		
,	The specification is objected to by the Exar		
10)⊠	The drawing(s) filed on 21 July 2001 is/are		•
	Applicant may not request that any objection to	= : :	• ,
141	Replacement drawing sheet(s) including the co		• •
	The oath or declaration is objected to by the	e Examiner. Note the attached	Oπice Action or form P1O-152.
	under 35 U.S.C. § 119		
	Acknowledgment is made of a claim for force	nents have been received. nents have been received in A priority documents have been	pplication No
* (	See the attached detailed Office action for a	, ,,,	received.
Attachmer	nt(s)		
	ce of References Cited (PTO-892)	4) Interview S	Summary (PTO-413)
	ce of Draftsperson's Patent Drawing Review (PTO-948 mation Disclosure Statement(s) (PTO-1449 or PTO/SE		s)/Mail Date  nformal Patent Application (PTO-152)
	er No(s)/Mail Date	6) Other:	

#### **DETAILED ACTION**

1. The Amendment filed on 05/13/2005 has been entered. Claims 1, 3-7, and 9-10 are pending in this Office action.

## Response to Arguments

2. Applicant's arguments with respect to claims 1, 5 and 7 have been considered but are most in view of the new ground(s) of rejection.

#### Claim Objections

- 3. Claim 1 is objected to because of the following informalities: in line 1, "CAN" should be changed to -- Controller Area Network --; in line 1, "Whilst" should be changed to -- while --. Appropriate correction is required.
- 4. Claim 3 is objected to because of the following informalities: in line 2, "whilst" should be changed to -- while --. Appropriate correction is required.
- 5. Claim 6 is objected to because of the following informalities: in line 2, "CAN" should be changed to -- Controller Area Network --. Appropriate correction is required.

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6. Claim 9 is objected to because of the following informalities: in line 1, "CAN" should be changed to -- Controller Area Network --; in line 2, "CAN" should be changed to -- Controller Area Network --; in line 4, "CAN" should be changed to -- Controller Area Network --; in line 5, "CAN" should be changed to -- Controller Area Network --.

Appropriate correction is required.

#### Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. Claims 1 and 3-7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Saunders et al. U.S. Patent 5,933,459.

Regarding claim 1, in column 5, lines 10-40, figure 4 shows a state machine in a receiver including first and second comparators 410(a) and 410(b), a multiplexer 420, and a latch 310.

In column 1 line 55 via column 2 line 17, Saunders et al. teaches a dual reference voltage receiver that includes comparison logic, a latch, and voltage selection logic that is coupled to the latch and the comparison logic. The comparison logic compares a current line voltage level 322 and provides an indication of a voltage state for a received data signal relative to an operative reference voltage, e.g. Vref1 or Vref2. The latch 310 receives the voltage state

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indication and couples it to its output in response to a timing signal (clock), and the voltage selection logic selects the operative reference voltage from the first and second reference voltages, according to the voltage state indication at the latch output.

In light of the foregoing disclosure, the latch 310 corresponds to the claimed storage element. The clock corresponds to the claimed local transmission indicator. And the voltage state indication corresponds to the claimed thresholded version of the comparison. The output of latch 310 is retrocoupled to the input of latch 310 through. MUX 420.

Saunders et al. does not expressly teach a reception indicator signal as claimed in the application claim. In column 2, lines 1-13, Saunders et al. further teaches the comparison logic provides an *indication of a voltage state* for a received data signal relative to an operative reference voltage. The latch receives the voltage state indication and couples it to its output in response to a timing signal, and the voltage selection logic selects the operative reference voltage from the first and second reference voltages, according to the voltage state indication at the latch output. In light of the foregoing teachings, one of ordinary skill in the art would have recognized the interchangeability of the *indication of a voltage state* as taught by Saunders et al. for the reception indicator signal as specified in the application claim. Motivation is the indication of a voltage state for a received data signal as taught in Saunders et al. invention.

Regarding claim 3, referring to figure 4, the retrocoupling is through MUX 420 while the non-retrocoupling feeds the clock or strobe.

Regarding claim 4, referring to figure 4, latch 310 is edge-triggered.

Regarding claim 5, in the background of the invention, column 1, lines 5-55, Saunders et al. invention is directed to the field of data transmission, and in particular to systems and methods for reliably determining the voltage level of data signals transmitter at high speed on 32-bit buses in computers and other data processing devices. In view of that, Saunders et al. receiver in figure 4 can be used in bus organization that has multiple transmission stations as claimed in the application claim.

Regarding claim 6, claim 6 is rejected on the same ground as for claim 1 because of similar scope.

Regarding claim 7, claim 7 is rejected on the same ground as for claim 5 because of similar scope. The receiver in figure 4 corresponds to the claimed station.

### Allowable Subject Matter

8. Claims 9-10 are allowed.

The following is a statement of reasons for the indication of allowable subject matter:

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Regarding claim 9, claim 9 is allowed over the cited prior art because the cited references cannot teach or suggest the method of operating a CAN communication line as set forth in the application claim.

#### **Conclusion**

9. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Draving U.S. Patent 6,262,602 B1 discloses "Incident-Edge Detecting Probe".

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Khanh Tran whose telephone number is 571-272-3007. The examiner can normally be reached on Monday - Friday from 08:00 AM - 05:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mohammad Ghayour can be reached on 571-272-3021. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

**KCT** 

Khanhoong Tran 07/22/2005 Examiner KHANH TRAN